

FIG. 1



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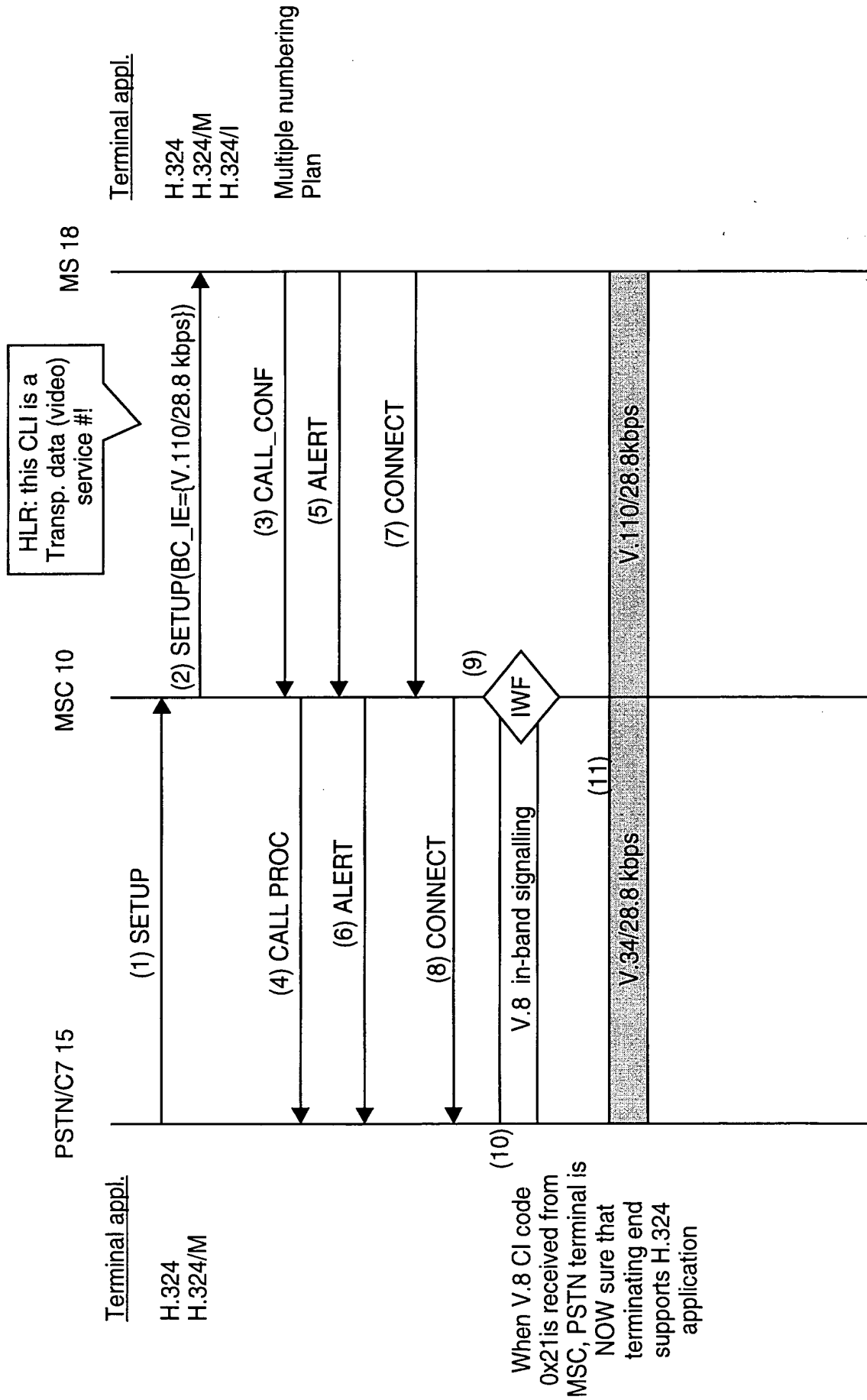


FIGURE 3

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When V.8 CF code
0x21 is received from
PSTN, MSC sure that
originating end supports
H.324 application

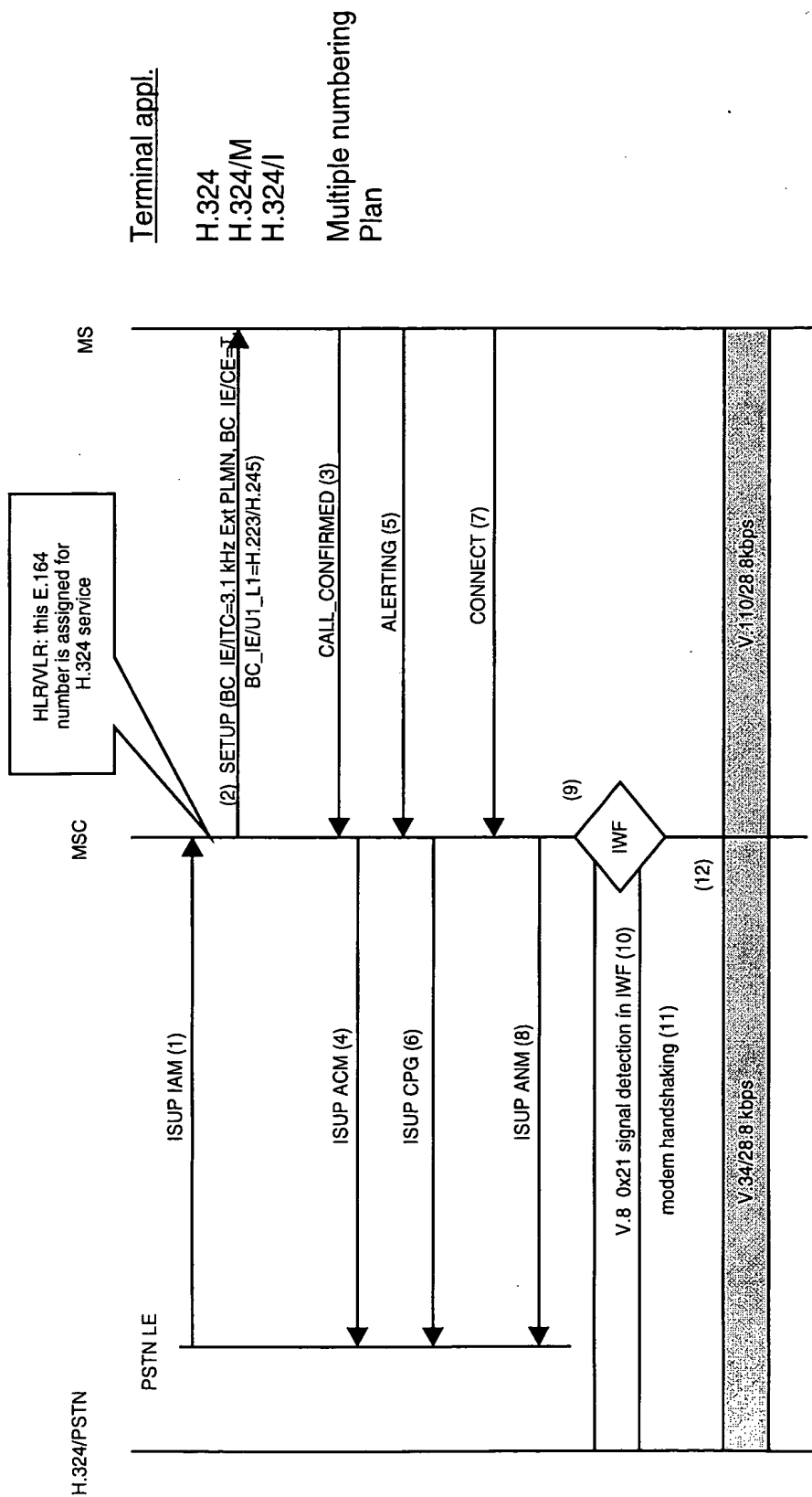


FIGURE 4

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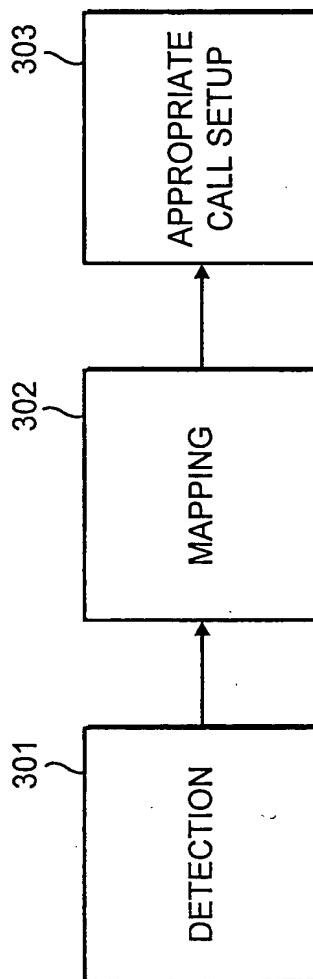


FIG. 5

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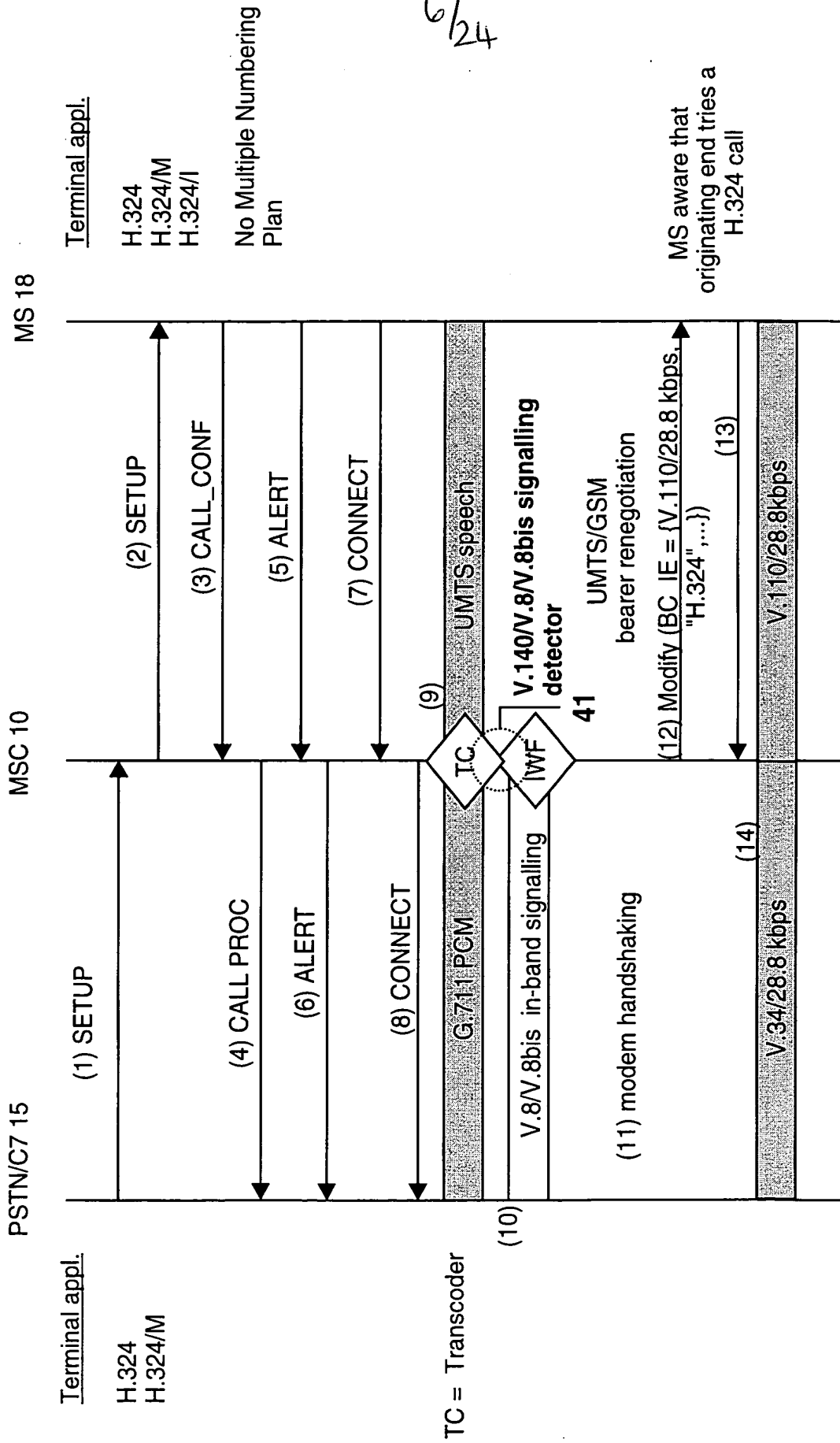


FIGURE 6

PSTN-MS direct call involvement, single-numbering Scheme

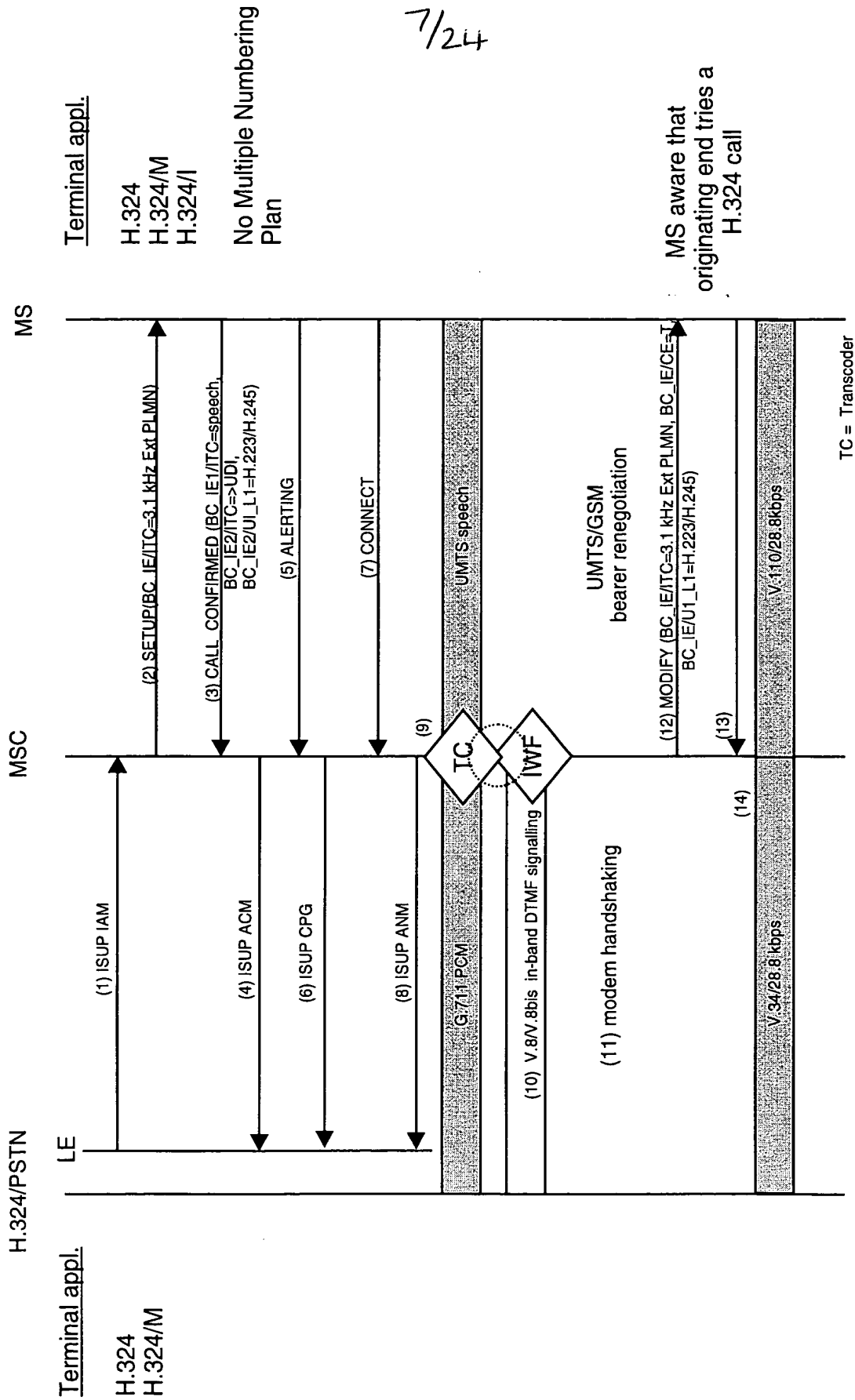
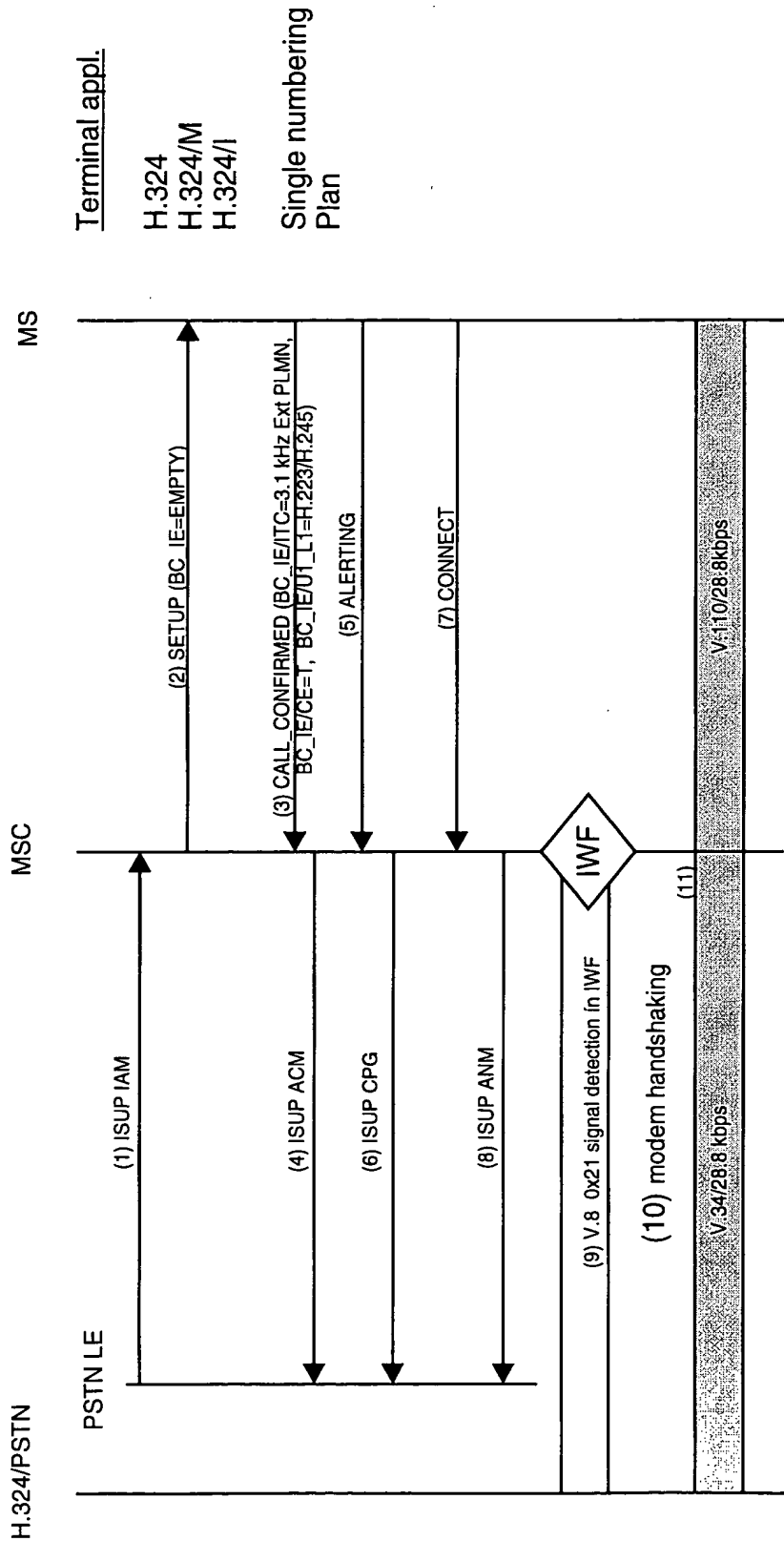


FIGURE 7

PSTN-MS direct call, single-numbering Scheme



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When V.8 CF code 0x21 is received from PSTN, MSC sure that originating end supports H.324 application

FIGURE 8

MS-PSTN Speech First, with Changeover Using V.8bis

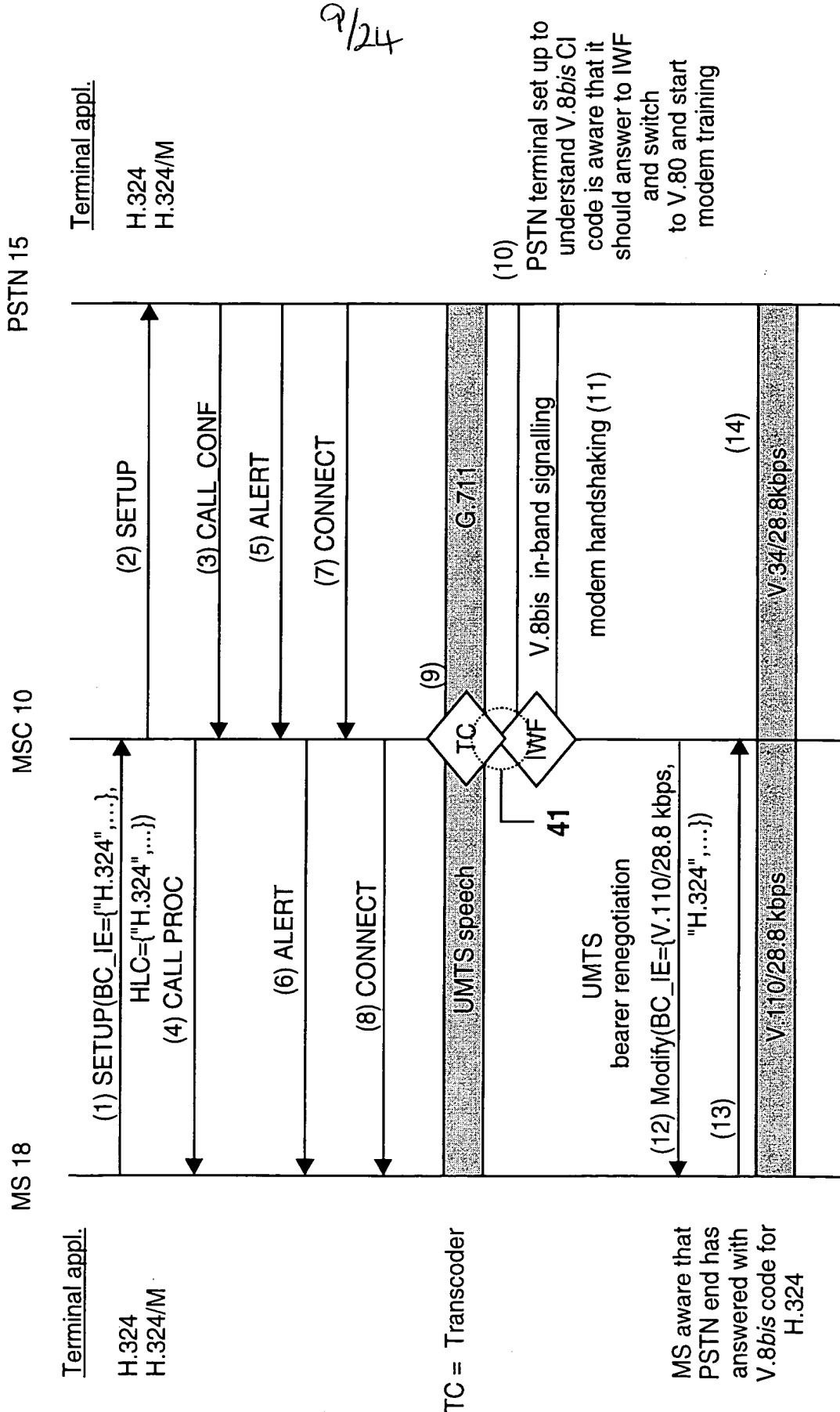


FIGURE 9

[illegible]

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FIGURE 10

MS - PSTN direct call without V.8bis involvement

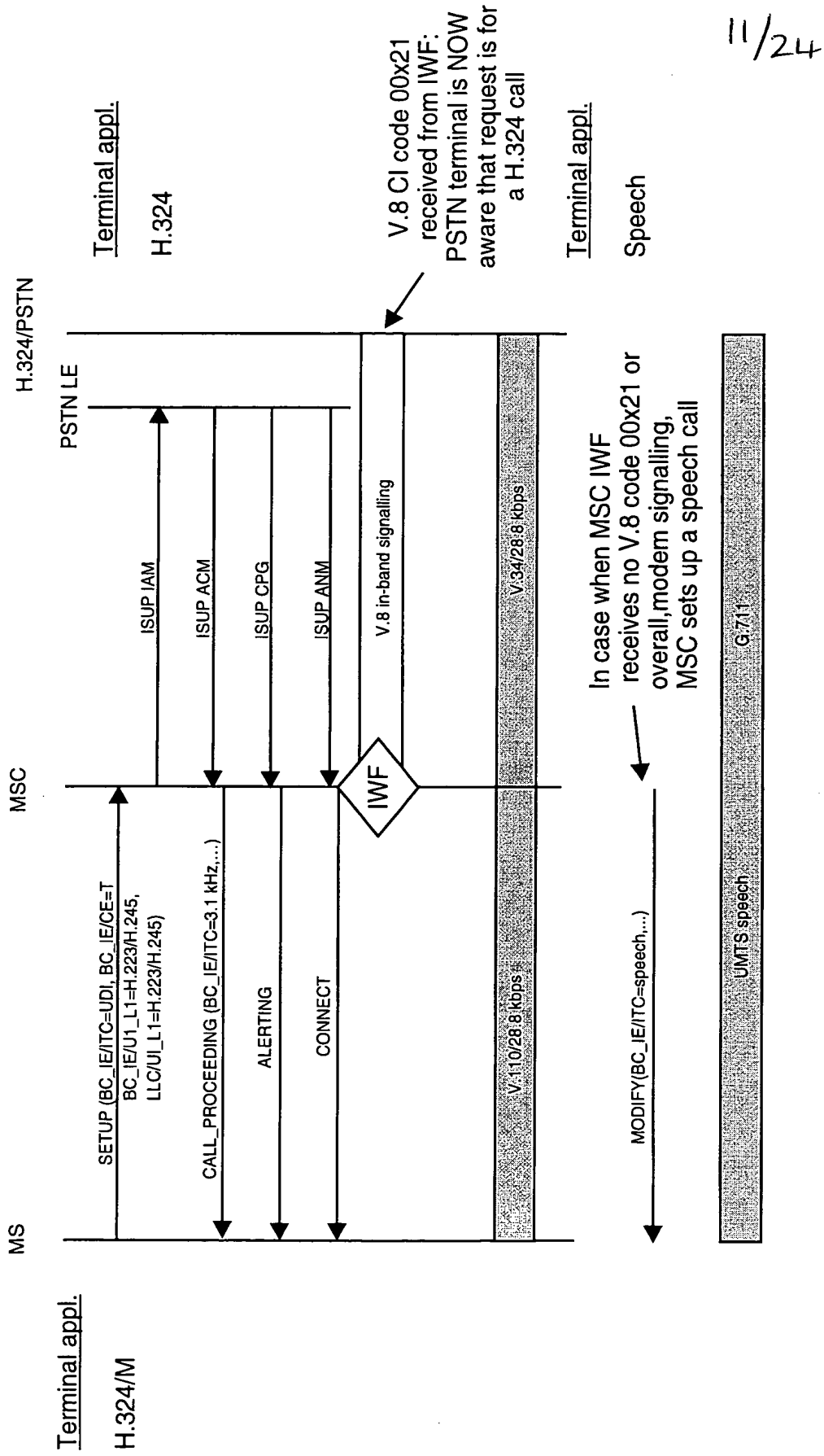


FIGURE 11

ISDN - UMTS

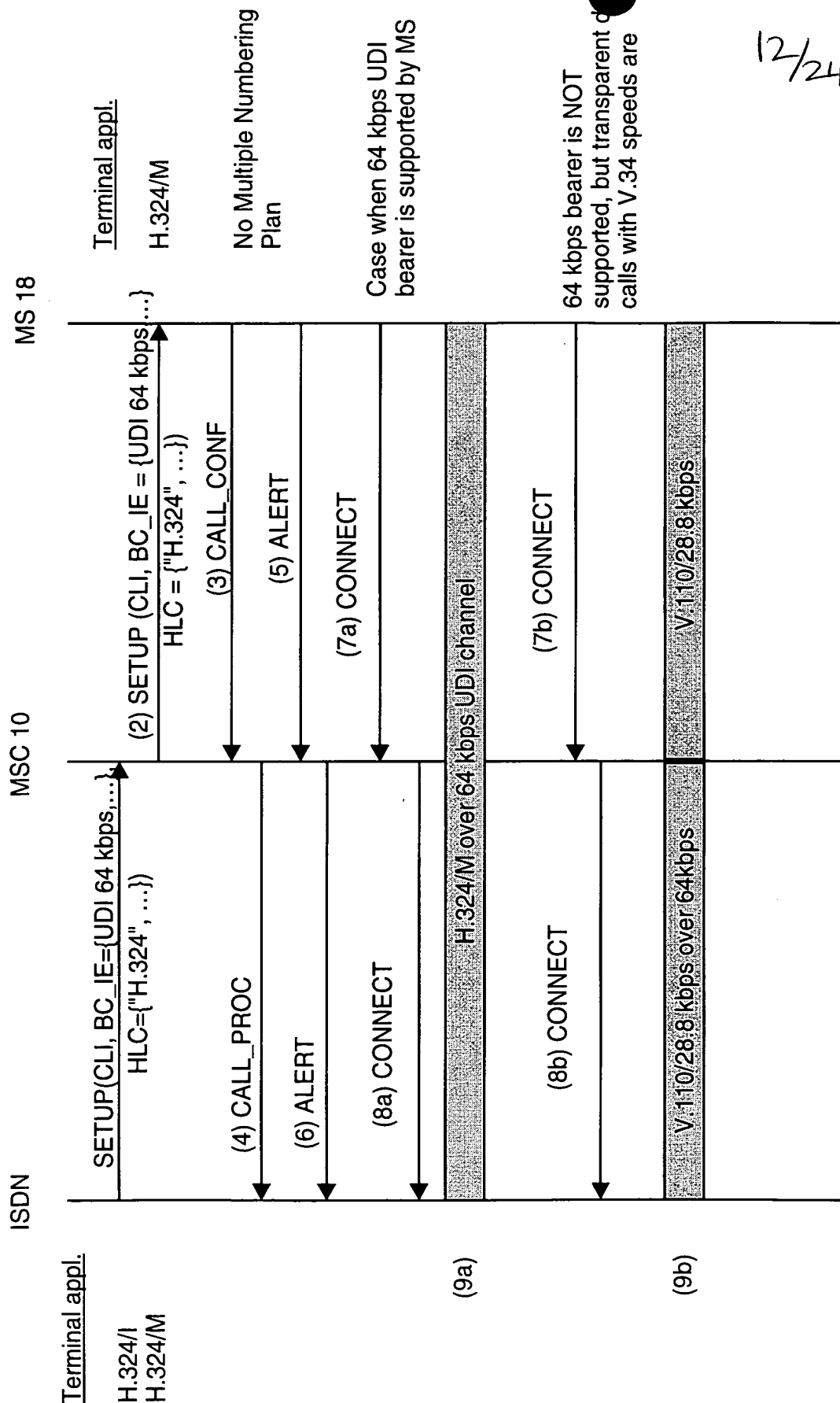


FIGURE 12

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ISDN - UMTS without end-to-end HLC

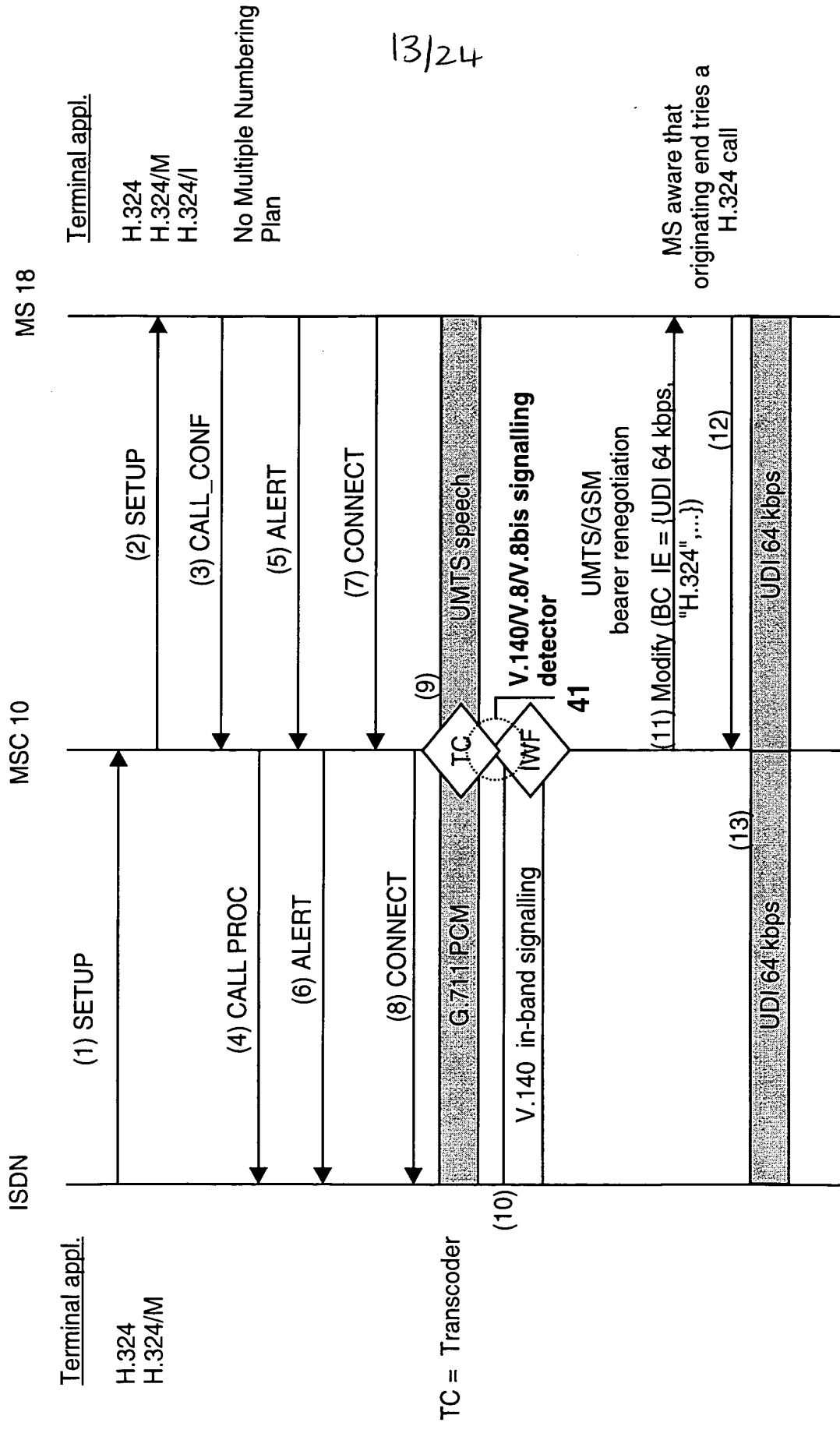


FIGURE 13

UMTS - ISDN

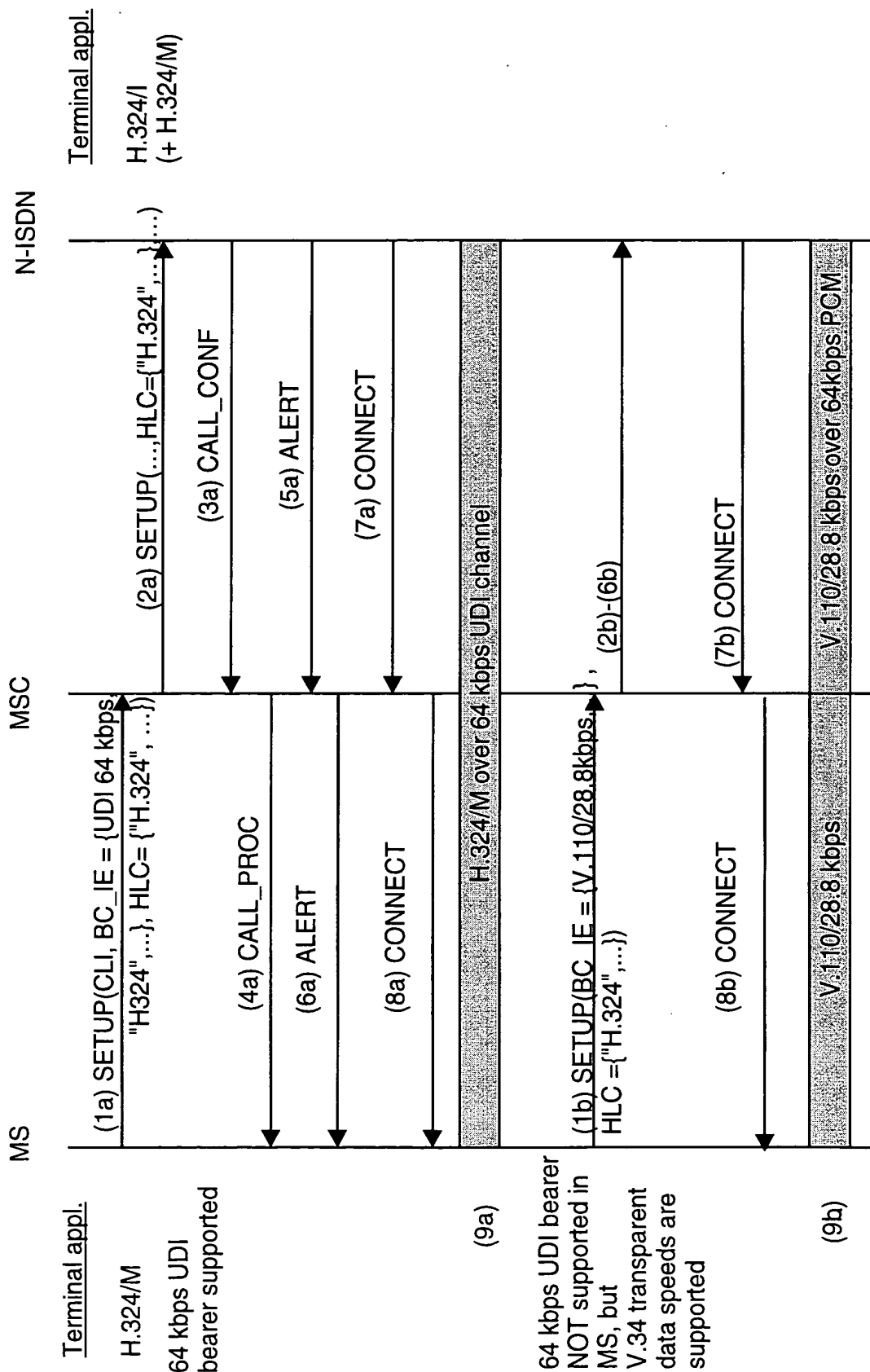


FIGURE 14

UMTS - ISDN without end-to-end HLC

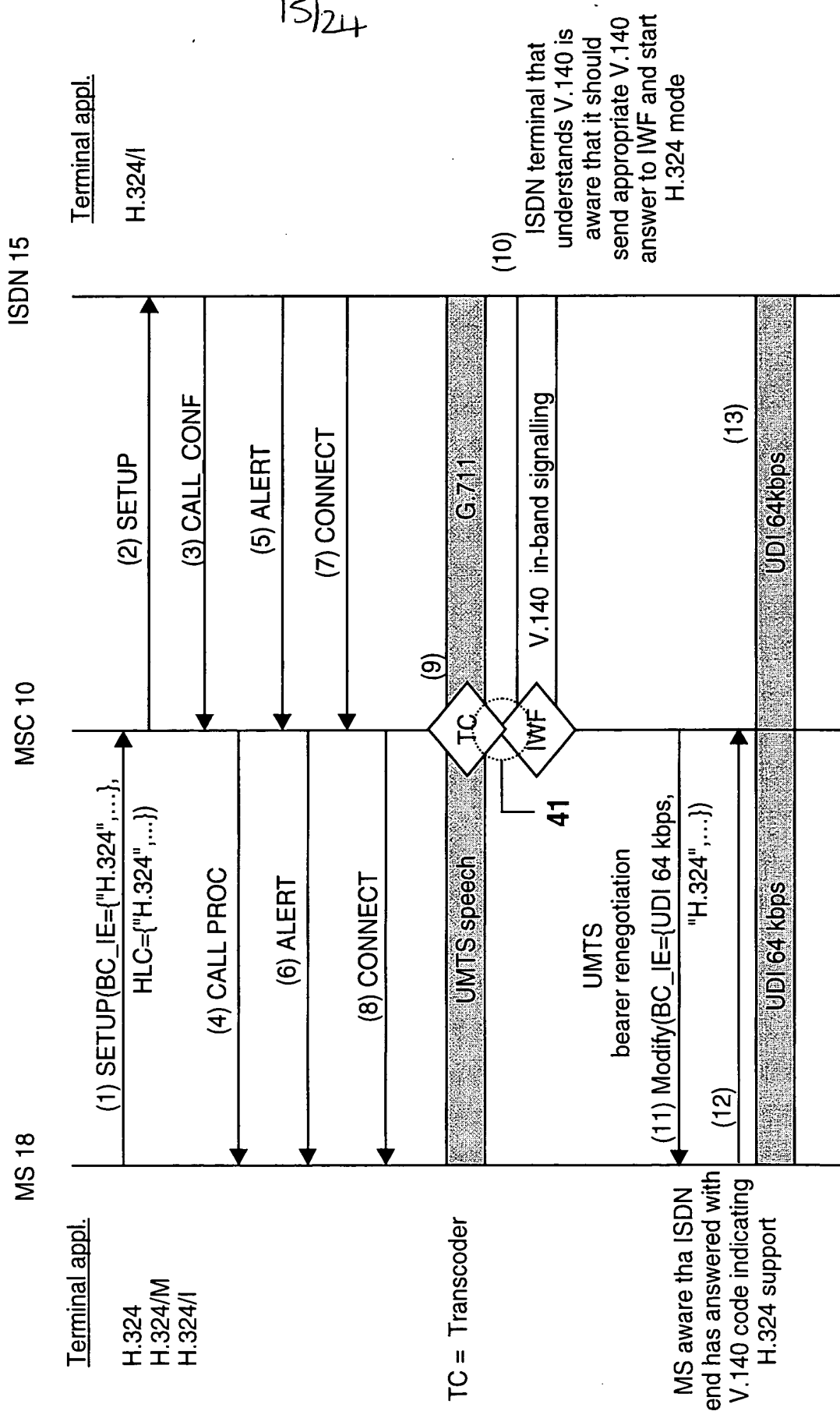


FIGURE 15

Terminal appl.

H.324/I
H.324/M

ISDN MSC MS

```
sequenceDiagram
    participant ISDN
    participant MSC
    participant MS

    Note over ISDN: (1) Q.931 SETUP (BC_IE/ITC=UDI, LLC/UI_L1=H.223/H.245)
    ISDN->>MSC: (1) Q.931 SETUP (BC_IE/ITC=UDI, LLC/UI_L1=H.223/H.245)
    Note over MSC: (2) ISUP IAM
    MSC->>MS: (2) ISUP IAM
    Note over ISDN: (4) Q.931 CALL PROCEEDING
    ISDN->>MSC: (4) Q.931 CALL PROCEEDING
    Note over MSC: (6) ISUP ACM
    MSC->>MS: (6) ISUP ACM
    Note over ISDN: (9) Q.931 ALERTING
    ISDN->>MSC: (9) Q.931 ALERTING
    Note over MSC: (8) ISUP CPG
    MSC->>MS: (8) ISUP CPG
    Note over ISDN: (12a) Q.931 CONNECT
    ISDN->>MSC: (12a) Q.931 CONNECT
    Note over MSC: (11a) ISUP ANM
    MSC->>MS: (11a) ISUP ANM
    Note over ISDN, MSC, MS: H.324/M over 64 kbps UDI channel
    Note over ISDN: (13a)
    Note over MSC: (10a) 04.08 CONNECT
    Note over MS: (10a) 04.08 CONNECT
    Note over ISDN: (12b) Q.931 CONNECT
    ISDN->>MSC: (12b) Q.931 CONNECT
    Note over MSC: (11b) ISUP ANM
    MSC->>MS: (11b) ISUP ANM
    Note over ISDN: (13b)
    Note over MSC: (10b) 04.08 CONNECT
    Note over MS: (10b) 04.08 CONNECT
    Note over ISDN: V:110/28.8 kbps over 64 kbps
    Note over MSC: V:110/28.8 kbps
    Note over MS: V:110/28.8 kbps
```

FIGURE 16

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ISDN - UMTS without end-to-end LLC

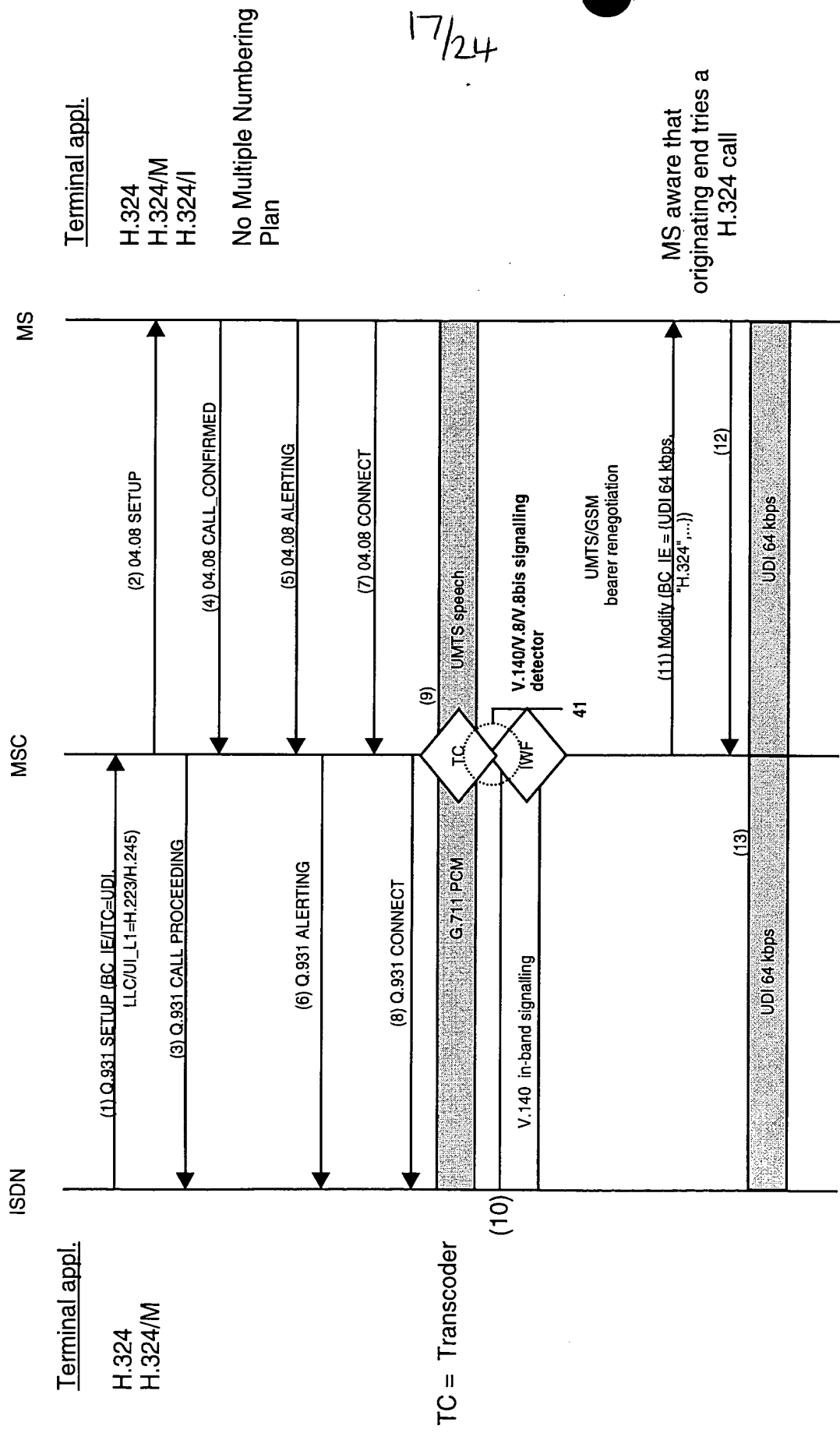


FIGURE 17

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UMTS - ISDN

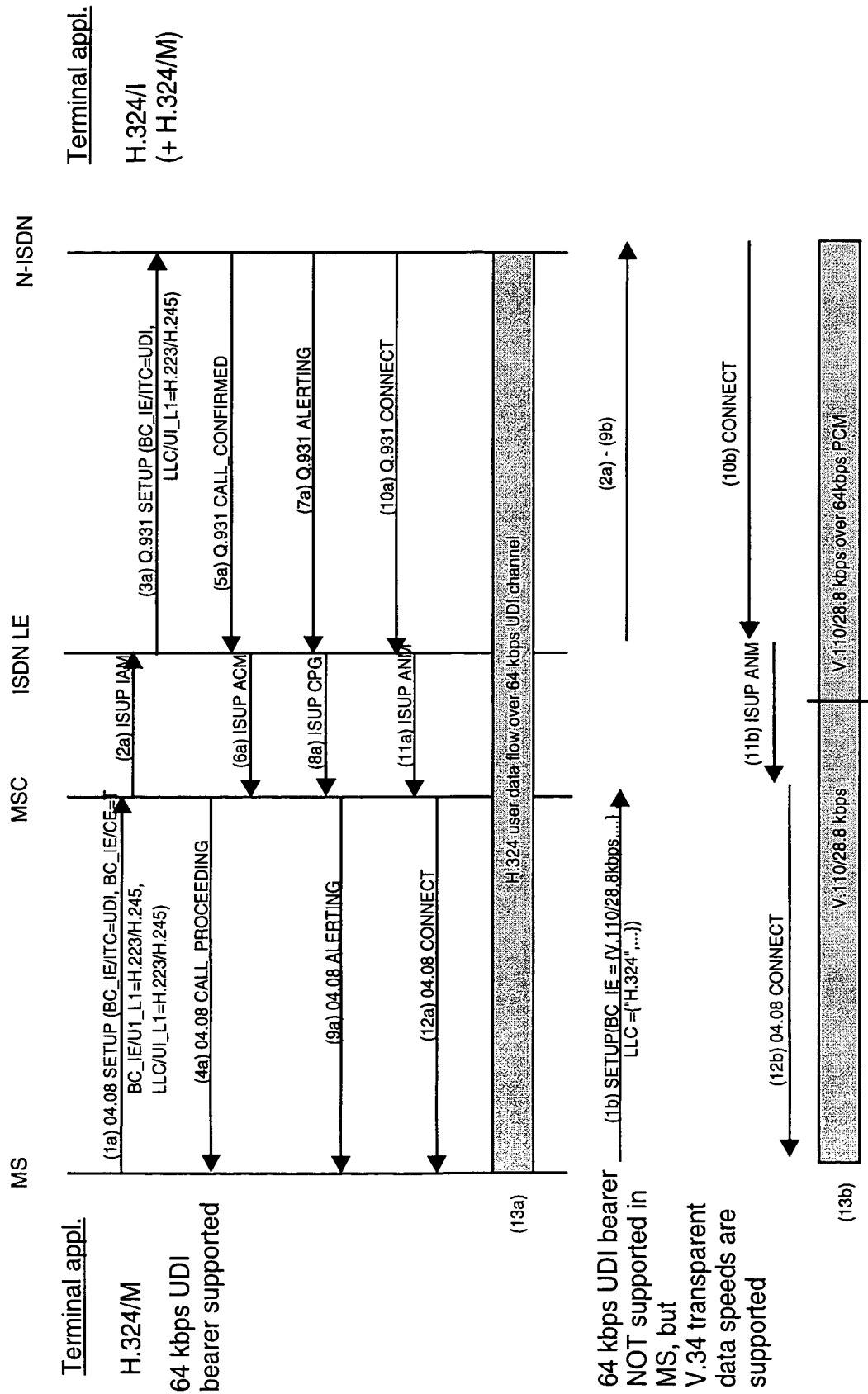


FIGURE 18

UMTS - ISDN without end-to-end LLC

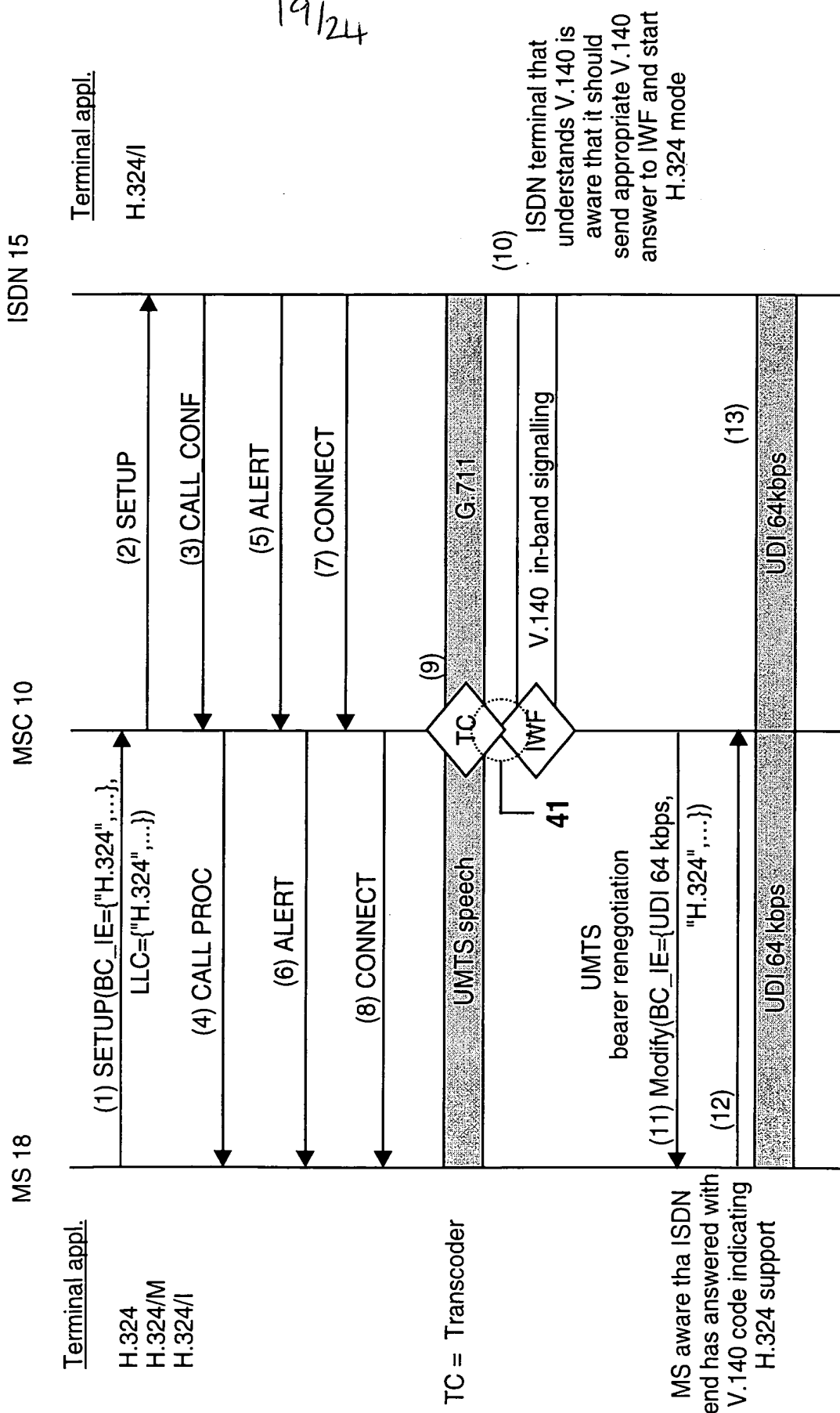


FIGURE 19

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UMTS - UMTS

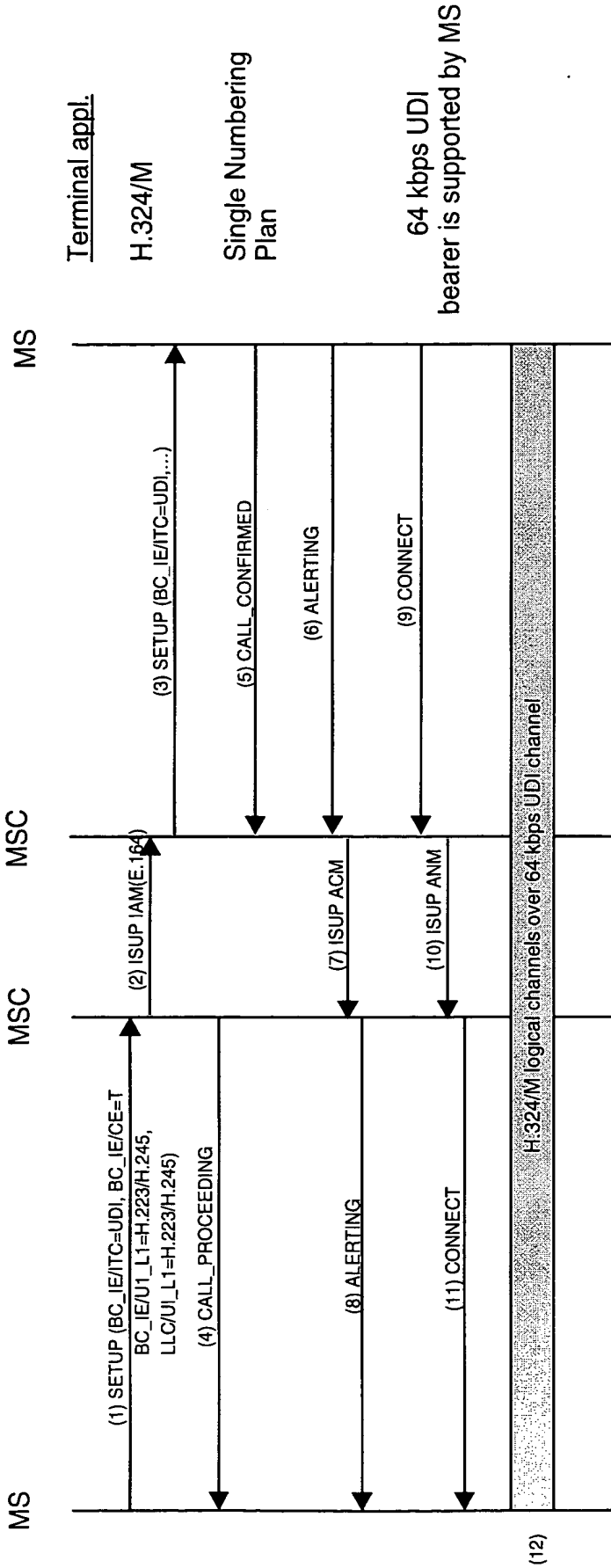


FIGURE 20

UMTS - 2G

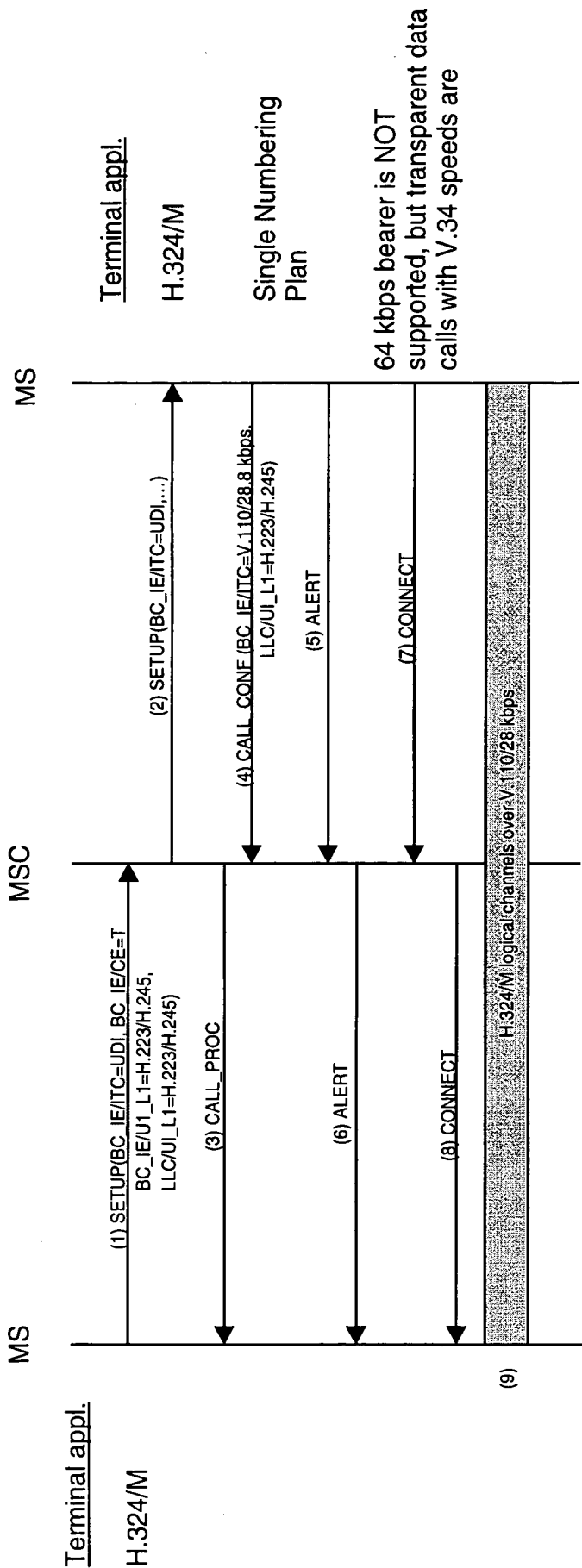


FIGURE 21

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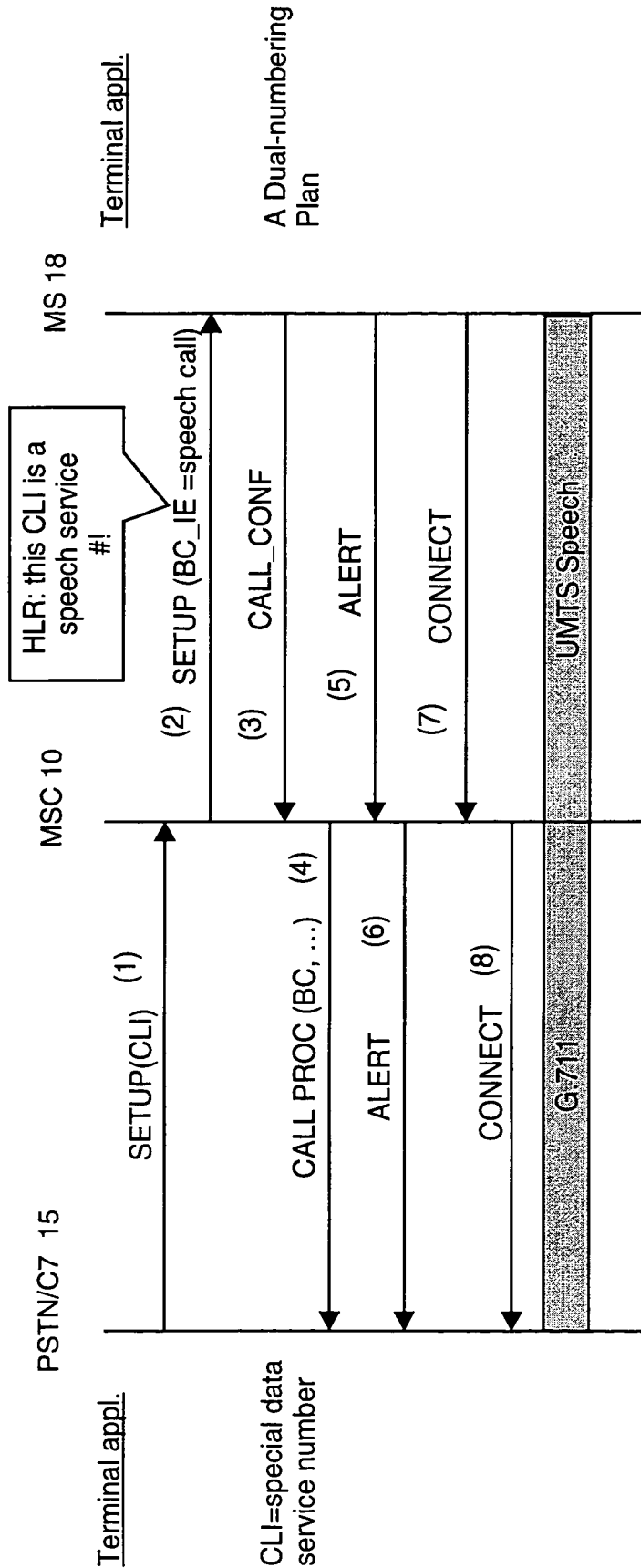


FIGURE 22

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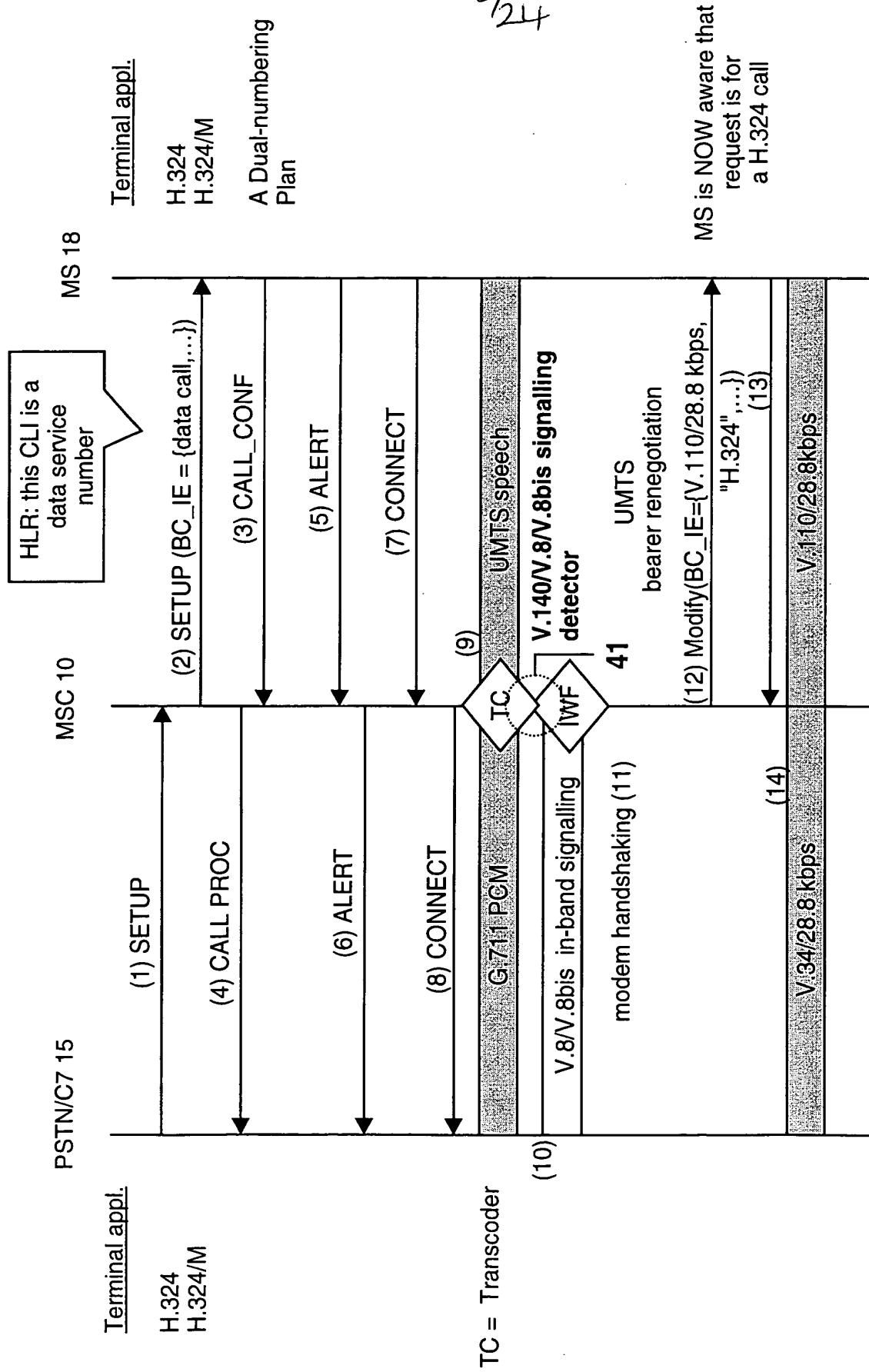


FIGURE 23

V.8	Call function category (Octet – "callf0")	UMTS	Bearer Capability
100	PSTN Multimedia Terminal (Bits 567)		Bearer Capability Information Element
		0	Transfer mode (octet 3)
			Circuit mode (Bit 4)
1	Modulation modes category (Octet – "modn0")		Bearer Capability Information Element
	V.34 duplex availability (Bit 6)	1	Duplex mode (octet 4)
			Full duplex (Bit 4)
V.25ter	Modulation control commands		Bearer Capability Information Element
	Modulation reporting control (+MR)	0	Synchronous/Asynchronous (octet 6)
			Synchronous (Bit 1)
+MCR: V34	+MCR: <carrier>		Bearer Capability Information Element
+MRR: 28800	+MRR: <rate>	00100	Fixed network user rate (octet 6d)
			28.8 kbps (Bits 54321)
V.8bis			Bearer Capability Information Element
	Standard information field - {SPar(1)} coding	1	Acceptable channel codings (octet 6e)
	Standard information field – Data {NPar(2)} coding (Octet 2)		TCH/F14.4 acceptable (Bit 7)
1	Rec. V.34 duplex mode (Bit 5)		Bearer Capability Information Element
		1	Acceptable channel codings (octet 6e)
	Standard information field - {SPar(1)} coding		TCH/F9.6 acceptable (Bit 5)
	Standard information field – H.324 multimedia terminal {NPar(2)} coding	1	Bearer Capability Information Element
1	Video (Bit 1)		Acceptable channel codings (octet 6e)
		1	TCH/F4.8 acceptable (Bit 4)
	Standard information field - {SPar(1)} coding		Bearer Capability Information Element
	Standard information field – H.324 multimedia terminal {NPar(2)} coding		Maximum number of traffic channels (octet 6e)
1	Audio (Bit 2)	001	2 TCH (Bits 321)
			Bearer Capability Information Element
		00	Connection element (octet 6c)
			Transparent (Bits 76)
			Bearer Capability Information Element
		10	Other modem type (octet 6d)
			V.34 (Bits 76)
			High Layer Compatibility
			High Layer Compatibility Information Element
			High layer characteristics identification (octet 4)
		1100001	PSTN Multimedia Terminal (Bits 7654321)

Figure 24